

## COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

(Includes Reference to PCT International Applications)

ATTORNEY'S DOCKET NUMBER

LUD 5298

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ACTIVIN RECEPTOR-LIKE KINASES, PROTEINS HAVING SERINETHREONINE KINASE DOMAINS AND THEIR USE

the specification of which (check only one item below):

☐ is attached hereto.☒ was filed as United States applicationSerial No. 08/436,265on May 16, 1995

and was amended

on \_\_\_\_\_ (if applicable).

☒ was filed as PCT international applicationNumber PCT/GB93/02367on November 17, 1993

and was amended under PCT Article 19

on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

## PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:

COUNTRY W/ PCT NO. 316 PCT 1	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC 119
GB	9224057.1	17 November 1992	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9304677.9	8 March 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9304680.3	8 March 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9311047.6	28 May 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9313763.6	2 July 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

PT 1139 (REV. 10-83)

Page 1 of 2

GB

9136099.2

3 August 1993

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

X Yes

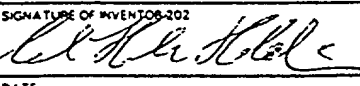
GB

9321344.5

15 October 1993

X Yes (January 1991)

<b>Combined Declaration For Patent Application and Power of Attorney (Continued)</b> <small>(Includes Reference to PCT International Applications)</small>				<b>ATTORNEY'S DOCKET NUMBER</b> TUD 5298	
I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:					
<b>PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:</b>					
U.S. APPLICATIONS				STATUS (Check one)	
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED	
PCT APPLICATIONS DESIGNATING THE U.S.					
PCT APPLICATION NO	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)			
PCT/GB93/02367	Nov. 17, 1993				
<b>POWER OF ATTORNEY:</b> As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. <i>(List name and registration number)</i> Peter F. Felfe (20,297); John E. Lynch (20,940); Alfred H. Hemingway, Jr. (26,736); Vincent M. Fazzari (26,879); Norman D. Hanson (30,946); F. Brice Faller (29,532); Andrew L. Tiajoloff					
* Send Correspondence to: (31,575); John A. Bauer (32,554); and Patricia A. Pasqualini (34,894). *FELFE & LYNCH 805 Third Avenue, New York, New York 10022			Direct Telephone Calls to: <i>(name and telephone number)</i> (212) 688-9200		
201	FULL NAME OF INVENTOR	FAMILY NAME Miyazono	FIRST GIVEN NAME Kohei	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY Uppsala	STATE OR FOREIGN COUNTRY Sweden	COUNTRY OF CITIZENSHIP Sweden	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS Flogstavagen 63D, S-752 63, Uppsala		STATE & ZIP CODE/COUNTRY Sweden	
202	FULL NAME OF INVENTOR	FAMILY NAME ten Dijke	FIRST GIVEN NAME Peter	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY Uppsala	STATE OR FOREIGN COUNTRY Sweden	COUNTRY OF CITIZENSHIP Sweden	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS Flogstavagen 25C, S-752 63, Uppsala		STATE & ZIP CODE/COUNTRY Sweden	
203	FULL NAME OF INVENTOR	FAMILY NAME Franzen	FIRST GIVEN NAME Petra	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY Uppsala	STATE OR FOREIGN COUNTRY Sweden	COUNTRY OF CITIZENSHIP Sweden	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS Lindsbergsgatan 15b S-752 40, Uppsala		STATE & ZIP CODE/COUNTRY Sweden	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.					
SIGNATURE OF INVENTOR 201		SIGNATURE OF INVENTOR 202		SIGNATURE OF INVENTOR 203	
DATE		DATE		DATE	
		October 16, 1995		October 16, 1995	

Combined Declaration For Patent Application and Power of Attorney (Continued) (Includes Reference to PCT International Applications)				ATTORNEY'S DOCKET NUMBER LUD 5298	
<p>I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:</p>					
PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:					
U.S. APPLICATIONS				STATUS (Check one)	
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED	
PCT APPLICATIONS DESIGNATING THE U.S.					
PCT APPLICATION NO	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)			
PCT/GB93/02367	Nov. 17, 1993		X		
<p><b>POWER OF ATTORNEY:</b> As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number) <b>peter F. Felte (20,297); John E. Lynch (20,940); Alfred H. Hemingway, Jr. (26,736); Vincent M. Fazzari (26,879); Norman D. Hanson (30,946); F. Brice Faller (29,532); Andrew L. Tiajolloff</b></p>					
<p>* Send Correspondence to: (31,575); John A. Bauer (32,554); and Patricia A. Pasqualini (34,894). *FELFE &amp; LYNCH 805 Third Avenue, New York, New York 10022</p>			<p>Direct Telephone Calls to: (name and telephone number) (212) 688-9200</p>		
201	FULL NAME OF INVENTOR	FAMILY NAME <b>Yamashita</b>	FIRST GIVEN NAME <b>Hidetoshi</b>	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY <b>Uppsala</b>	STATE OR FOREIGN COUNTRY <b>Sweden</b>	COUNTRY OF CITIZENSHIP <b>Sweden</b>	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Flogstavagen 33A, S-752 63, Uppsala</b>		STATE & ZIP CODE/COUNTRY <b>Sweden</b>	
	FULL NAME OF INVENTOR	FAMILY NAME <b>Heldin</b>	FIRST GIVEN NAME <b>Carl-Henrik</b>	SECOND GIVEN NAME	
202	RESIDENCE & CITIZENSHIP	CITY <b>Uppsala</b>	STATE OR FOREIGN COUNTRY <b>Sweden</b>	COUNTRY OF CITIZENSHIP <b>Sweden</b>	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Hesselmans vag 35</b>		STATE & ZIP CODE/COUNTRY <b>Sweden</b>	
	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
203	POST OFFICE ADDRESS	CITY		STATE & ZIP CODE/COUNTRY	
	<p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.</p>				
	SIGNATURE OF INVENTOR 201		SIGNATURE OF INVENTOR 202 		SIGNATURE OF INVENTOR 203
	DATE		DATE <b>October 16, 1995</b>		DATE

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(Includes Reference to PCT International Applications)

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the specification of which (check only one item below):

☐ is attached hereto.☒ was filed as United States applicationSerial No. 08/436,265on May 16, 1995

and was amended

on \_\_\_\_\_ (if applicable).

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and was amended under PCT Article 19

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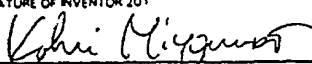
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COUNTRY (if PCT indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC 119
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GB	9304680.3	8 March 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9311047.6	28 May 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9313763.6	2 July 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

PT 1331 (REV. 10-83)

GB  
GB9136099.2  
9321344.53 August 1993  
15 October 1993U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office  
X Yes  
(January 1991)  
X Yes

Combined Declaration For Patent Application and Power of Attorney (Continued) <small>(Includes Reference to PCT International Applications)</small>				ATTORNEY'S DOCKET NUMBER <b>LUD 5298</b>	
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PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:					
U.S. APPLICATIONS			STATUS (Check one)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED	
PCT APPLICATIONS DESIGNATING THE U.S.					
PCT APPLICATION NO	PCT FILING DATE	U.S. SERIAL NUMBERS <small>ASSIGNED (if any)</small>			
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	RESIDENCE & CITIZENSHIP	CITY <b>Uppsala</b>	STATE OR FOREIGN COUNTRY <b>Sweden</b>	COUNTRY OF CITIZENSHIP <b>Sweden</b>	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Flogstavagen 63D, S-</b>	CITY <b>752 63, Uppsala</b>	STATE & ZIP CODE/COUNTRY <b>Sweden</b>	
202	FULL NAME OF INVENTOR	FAMILY NAME <b>ten Dijke</b>	FIRST GIVEN NAME <b>Peter</b>	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY <b>Uppsala</b>	STATE OR FOREIGN COUNTRY <b>Sweden</b>	COUNTRY OF CITIZENSHIP <b>Sweden</b>	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Flogstavagen 25C, S-</b>	CITY <b>752 63, Uppsala</b>	STATE & ZIP CODE/COUNTRY <b>Sweden</b>	
203	FULL NAME OF INVENTOR	FAMILY NAME <b>Franzen</b>	FIRST GIVEN NAME <b>Petra</b>	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY <b>Uppsala</b>	STATE OR FOREIGN COUNTRY <b>Sweden</b>	COUNTRY OF CITIZENSHIP <b>Sweden</b>	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Lindsbergsgatan 15b</b>	CITY <b>S-752 40, Uppsala</b>	STATE & ZIP CODE/COUNTRY <b>Sweden</b>	
<p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.</p>					
SIGNATURE OF INVENTOR 201 		SIGNATURE OF INVENTOR 202		SIGNATURE OF INVENTOR 203	
DATE <b>Oct. 16, 1995</b>		DATE		DATE	

<b>Combined Declaration For Patent Application and Power of Attorney (Continued)</b> <small>(Includes Reference to PCT International Applications)</small>				<b>ATTORNEY'S DOCKET NUMBER</b> LUD 5298	
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U.S. APPLICATIONS				STATUS (Check one)	
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED	
PCT APPLICATIONS DESIGNATING THE U.S.					
PCT APPLICATION NO	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)			
PCT/GB93/02367	Nov. 17, 1993		X		
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* Send Correspondence to: (31,575); John A. Bauer (32,554); and Patricia A. Pasqualini (34,894). <b>*FELFE &amp; LYNCH</b> 805 Third Avenue, New York, New York 10022			Direct Telephone Calls to: <small>(name and telephone number)</small> (212) 688-9200		
201	FULL NAME OF INVENTOR	FAMILY NAME <b>Yamashita</b>	FIRST GIVEN NAME <b>Hidetoshi</b>	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY <b>Uppsala</b>	STATE OR FOREIGN COUNTRY <b>Sweden</b>	COUNTRY OF CITIZENSHIP <b>Sweden</b>	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Flogstavagen 33A, S-752 63, Uppsala</b>		STATE & ZIP CODE/COUNTRY <b>Sweden</b>	
202	FULL NAME OF INVENTOR	FAMILY NAME <b>Heldin</b>	FIRST GIVEN NAME <b>Carl-Henrik</b>	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY <b>Uppsala</b>	STATE OR FOREIGN COUNTRY <b>Sweden</b>	COUNTRY OF CITIZENSHIP <b>Sweden</b>	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>Hesselmanns vag 35 S-752 63, Uppsala</b>		STATE & ZIP CODE/COUNTRY <b>Sweden</b>	
203	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS		STATE & ZIP CODE/COUNTRY	
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SIGNATURE OF INVENTOR 201		SIGNATURE OF INVENTOR 202		SIGNATURE OF INVENTOR 203	
<b>Hidetoshi Yamashita</b>					
DATE <b>Oct. 16, 1995</b>		DATE		DATE	

(1) GENERAL INFORMATION:

- (i) APPLICANTS: Miyazono, Kohei; Dijke, Peter Ten;  
Franzen, Petra; Yamashita, Hidetoshi; Heldin, Carl-Henrik
- (ii) TITLE OF INVENTION: Activin Receptor-Like Kinase, Proteins  
Having Serine Threonine Kinase Domains And Their Use
- (iii) NUMBER OF SEQUENCES: 29
- (iv) CORRESPONDENCE ADDRESS:  
(A) ADDRESSEE: Felfe & Lynch  
(B) STREET: 805 Third Avenue  
(C) CITY: New York City  
(D) STATE: New York  
(F) ZIP: 10022
- (v) COMPUTER READABLE FORM:  
(A) MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage  
(B) COMPUTER: IBM  
(C) OPERATING SYSTEM: PC-DOS  
(D) SOFTWARE: Wordperfect
- (vi) CURRENT APPLICATION DATA:  
(A) APPLICATION NUMBER: 08/436,265  
(B) FILING DATE: 30-October-1995  
(C) CLASSIFICATION: 514
- (vii) PRIOR APPLICATION DATA:  
(A) APPLICATION NUMBER: PCT/GB93/02367  
(B) FILING DATE: 17-November-1993
- (vii) PRIOR APPLICATION DATA:  
(A) APPLICATION NUMBER: 9224057.1  
(B) FILING DATE: 17-November-1992
- (vii) PRIOR APPLICATION DATA:  
(A) APPLICATION NUMBER: 9304677.9  
(B) FILING DATE: 8-March-1993
- (vii) PRIOR APPLICATION DATA:  
(A) APPLICATION NUMBER: 9304680.3  
(B) FILING DATE: 8-March-1993
- (vii) PRIOR APPLICATION DATA:  
(A) APPLICATION NUMBER: 9311047.6  
(B) FILING DATE: 28-May-1993
- (vii) PRIOR APPLICATION DATA:  
(A) APPLICATION NUMBER: 9313763.6  
(B) FILING DATE: 2-July-1993